

Listing of claims:

1 – 75. Canceled.

76. (New) A real-time vehicle or equipment management system including a security function that restricts unauthorized access thereto, comprising:

at least one operation sensor for recording the operations of the at least one of the vehicle and equipment as a recording signal;

a memory for storing the operations of the vehicle or the equipment received from said operation sensor in a secure manner; and

a processor responsively connectable to said memory, for receiving the recording signal, at least one communication device for reporting or transferring data to at least one remote monitoring and control system with transmission of the data being optionally two-way transmission for memory storage recording of remote control commands, the recording signal from at least one of operation sensor, audio data records and visual data records, said at least one communication device comprising at least one of:

a two-way pager responsively connectable via at least one of a processor and a computer stored in a secured manner and capable of transmitting data to download to at least one remote monitoring system;

a wireless telephone responsively connectable via the at least one processor and computer stored in a secure manner and capable of transmitting data to download to the at least one remote monitoring system;

a radio frequency transceiver responsively connectable to the at least one processor and computer stored in a secure manner and capable of transmitting data to download to the at least one remote monitoring system;

a physical connector interface port responsively connectable to the at least

one processor and computer and at least one of protected, shielded and maintained in a secure manner, and capable of transferring data to download to the at least one remote monitoring system;

an optical light data transmission port responsively connectable to the at least one processor and computer and securely maintained, and capable of transmitting data to download to the at least one remote monitoring system;

a multi-tasking law enforcement device capable, optionally through electronic security protocols, to communicate with the at least one processor and computer and download to the at least one remote location;

at least one processor and computer responsively connectable to at least one memory and at least one auxiliary communication device in a secure manner that can be processed to any other communication device responsibly connectable to the processor or computer to download the data to the at least one remote monitoring system;

at least one processor and computer responsively connectable to a Global Positioning System (GPS) able of transmitting GPS coordinate data protocol to the at least one remote monitoring system;

at least one processor and computer responsively connectable to at least one magnetic card swipe device that can transmit via other communication devices to the at least one remote monitoring system for at least one of billing, debiting and crediting;

at least one processor and computer responsively connectable to at least one of audio and video devices and other communication systems to at least one of guide and control remotely a vehicle;

at least one processor and computer responsively connectable to at least one memory to record at least one of an audio and video signal, and data used to control a

vehicle remotely; and

at least one two-way communication system including at least one security device or routine to condition the signal with at least one security protocol including at least one encryption technology to securely interface between at least one communication device and the remote location,

wherein said at least one processor comprises at least a local Primary Focal Node termed a PFN to have hardware and programmable and or modular software or firmware termed TRAC which functions as a Trusted Remote Activity Controller providing robotics or automated and remote control accountability by recording event data local and redundantly in remote memory storage, for communication components and computer hardware systems as determined by any industry or government standards efforts and protocols, for interfacing with activity controls, sensors, or devices in any vehicle, machine, or as part of any equipment or on any person, animal, living entity or for any arbitrary use as a free standing piece of accountable telemetry or control equipment,

wherein said at least one of said plurality of communication devices include a backup system to provide back up to any automated, remote control system,

wherein said at least one of said plurality of external devices are supported by a universal interface for separate C.O.T.S. products and accessories, the at least one of the plurality of external devices interfacing with said at least one processor via the at least one of the plurality of interface protocols, providing the capability of the at least one of the external devices to be at least one of remotely controlled and remotely operated,

wherein said primary focal node supports at least one of application specific software protocols and hardware systems for industry standards for recorded data as determined by at least one of codes, specifications, rules regulations, and laws, for at least one of vehicles, equipment or machinery use, and

wherein said real-time vehicle or equipment management system includes redundant remote storage in at least one remote location in at least one application specific industry standard protocol as determined by at least one of codes, specifications, rules, regulations, data handling procedures and laws for at least one of equipment, machinery and vehicle use.

77. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, wherein said plurality of external devices includes at least one of: an electrical actuating accessory and at least one peripheral device controlling automated remote control functions utilizing at least one of electricity, compressed air, gases, vacuums, hydraulic and fluid pressure.

78. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, wherein said plurality of external devices includes at least one of: electro magnets solenoids, motors, mechanical or silicon relays, pistons, cylinders, pumps, valves, adjustable valves, spindle valves, cables, linkages levers, shifter forks, paws, ratchets, catches, couplers, spring returns, gearing or power transfer mechanisms cases, brake pads disk assemblies, drums, clutches, interlocking drive mechanisms, spined hub collars and shafts.

79. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices including the report back capability to report the data collected by said at least one sensory device on at least one of a responsively connectable electrical actuating accessory and peripheral device via at least one of a camera, transducer sensors that provide an electrical signal, pressure sensor, vacuum sensor, surrounding environmental time and distance measurements, and onboard device position sensing.

80. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices include at least one of a

responsively connectable electrical actuating accessory and peripheral devices to control vehicle or equipment speed by controlling a physical position of a throttle through shaft on any air fuel mixture system or to energize a power plant for internal combustion engines.

81. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices include at least one of circuitry, module, processor, device, component, firmware, and onboard board software that functions to control at least one of an electric stepper motor and solenoid for at least one of throttle through shaft control and drive by wire modalities to control at least one of electric drive motors, electric drive flywheel inertia power plants, drive trains to control vehicle speed, and controlling electrical energy production or generation using an on-board chemical conversion system.

82. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices include at least one of a responsively connectable electrical actuating accessory and peripheral devices to control and monitor onboard real-time production of alternative fuels, waste products, heat production, and by products for power plants.

83. (New) A real- Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices include at least one of:

- at least one fuel throttling device designed to at least one eliminate, limit, and control an injection pump, thereby providing the necessary fuel combination component for operation;

- at least one electrically controlled solenoids valve, stepper motor, and spindle valve to control fuel flow;

- at least one driver controls and solenoid to activate cylinder releases, optionally including a Jake brake;

at least one clutch automated via controls to energize disengagement and reengagement of said at least one clutch.

84. (New) A Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices includes at least one of an emergency, mechanical, and hydraulic braking system automation and remote control the vehicles or equipment, when used in any fashion to slow or stop the vehicle or equipment, and optionally de-energizing track drives and reversing direction.

85. (New) A Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices include at least one of an air service brake system and Maxi can emergency brake system to slow, stop and secure the vehicle in a stationary position, by first slowly applying brakes to rear most tandem axles and wheels in a graduated manner until the vehicle is sensed to have no movement and without locking up the wheels responsive to feedback from at least one of wheel sensors and a rear end drive train sensor, and optionally securing the vehicle and dumping the maxi can pressure to hold the vehicle in a substantially stationary position.

86. (New) A Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices includes at least one brake system controlling left and right side track independently or jointly to effectively control at least one of steering and braking through automation of at least one of operator controls, drives, transmission clutches, electrically controlled hydraulic clutch packs located anywhere in a power train of the vehicle for heavy equipment, revolving track equipment, agriculture, construction, commercial applications and military equipment.

87. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said at

least one of said plurality of external devices include at least one of a braking system and a fuel control system to perform a vehicle or equipment slow down and stop procedure, comprising a multi-phase shut down protocol, including:

- a first phase slow down to at least one of eliminate and control an operator's ability to accelerate and increase the speed of the vehicle or the equipment, while optionally preserving an energized power steering function and power braking function on the vehicle or the equipment;
- a second phase slow down to perform a stop and secure function by at least one of a remote command and a preprogrammed timed deployment of at least one of an automated emergency and mechanical brake system to slow and stop the vehicle or the equipment in a stationary position; and
- a third phase shut down to completely disable the equipment or the vehicle via at least one of a preprogrammed time activated function and a remote control function to the vehicle or the equipment.

88. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices include a tracking and monitoring system to provide real-time tracking, monitoring and remote control through computer and automated network links to coordinate intersecting traffic between road, rail, and waterway shipping by controlling at least one of diesel motors, diesel over electric motors, electric motor controllers, stepper motor control systems, operator mechanical controls, cables, linkages, hydraulic lines, air lines, electrical control service lines and circuits.

89. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices include a backup system to provide back up to any automated, remote control system.

90. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said at

least one of said plurality of external devices function to track and provide information to rail system customers and users of a location of a particular load, and optionally including audio and video surveillance for increased security, and sensing devices to sense at least one of sensitive and valuable loads.

91. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein the vehicle or the equipment includes application specific primary focal nodes for at least one of:

- tracking, monitoring and controlling worldwide the vehicle or the equipment to at least one of throttle, increase and decrease revolutions per minute of a drive shaft in the vehicle;
- controlling transmissions and rudder controls for automated and remote control guidance, forward and reverse functions;
- controlling air, steam, hydraulic, and mechanical electrical devices.

92. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices includes ignition components and modules to control engine revolutions per minute, maintain a run position through electronic signals via at least one trickster circuit.

93. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices includes at least one of a coyote circuit, a trickster circuit, and other circuit responsibly connectable to the PFN or processor providing a signal that deceives another processor into performing a preprogrammed task, as an automated function, a remote control function, and an interface function for synergistic machine control.

94. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices includes a coyote circuit providing a signal that deceives another processor into performing a preprogrammed task, including at least one of an

automated function, a remote control function, and an interface function for machine control.

95. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices includes a coyote circuit used to intercept and determine if an electrical signal is sent to a processor or automated relay system and utilize the signal to trigger or perform automated functions.

96. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices includes at least one of a coyote circuit and other circuit used to create a plug and play connector as a universal modality to interface with at least one of electrical parts, components, devices, personal products or different manufactures products.

97. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices includes at least one report back sensing device that monitors data on at least one of machine remote control, area surveillance, environmental sensing, operator activities and equipment operational data.

98. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein the real-time vehicle or equipment management system is located in multi-equipment locations and are monitored by at least one local central system which includes at least one land line phone, node, and satellite link with a protected gateway to communicate with application specific data, including at least one of short range communications so that monitoring can be done at a local level with application specific data and then transmitted and stored in a redundant manner for analysis in a computer network, and if no local level node is found, the vehicle or the equipment would enter an application specific shut down sequence and cease to operate until a

predetermined signal was provided or the vehicle or the equipment was reprogrammed.

99. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices includes at least one application used in conjunction with a security system, home computer controller system, household equipment and utilities management system to organize, store, complete phone node contact and transmit data for at least one of utility and equipment use for at least one of billing, personal records and taxing for same, as well as, provide services for repair and maintenance purposes.

100. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) system according to claim 76, wherein said at least one of said plurality of external devices includes the function of operating at a specific location and not being transferable to another location without authorization, and when transferred in an unauthorized manner, the at least one of said plurality of devices transmits an identification signal to report the location of the displaced equipment.

101. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said at least one of said plurality of external devices are supported by a universal interface for products and accessories, the at least one of the plurality of external devices interfacing with said at least one processor via the at least one of the plurality of interface protocols, providing the capability of the at least one of the external devices to be at least one of remotely controlled and remotely operated.

102. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said real-time vehicle or equipment management system is constructed application specific in physical structure to house and provide for optional easy to remove and replace said plurality of external devices via at least one of: compartments, shelves, trays, cassettes, cartridges, and bins.

103. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said real-time vehicle or equipment management system is utilized for accountability through automated onboard preprogrammed monitoring and data storage, including an optional backup system, of remote control activities in at least one of vehicles, equipment and machinery use.

104. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said primary focal node supports at least one of application specific software protocols and hardware systems for industry standards for recorded data as determined by at least one of codes, specifications, rules regulations, and laws, for at least one of vehicles, equipment or machinery use.

105. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said real-time vehicle or equipment management system includes redundant remote storage in at least one remote location in at least one application specific industry standard protocol as determined by at least one of codes, specifications, rules, regulations, data handling procedures and laws for at least one of equipment, machinery and vehicle use.

106. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein said real-time vehicle or equipment management system is at least one of global network, web and Internet accessible to monitor remote control function in real time and to mass store data off-board as transmitted by at least one of the PFN and other machine messaging systems and to access the web for personal use from the PFN for at least one of E-mail messaging and remote tracking.

107. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein the

real-time vehicle or equipment management system is used in conjunction with an interactive highway system and law enforcement protocols to perform traffic control functions and surveillance functions through remote control of at least one peripheral device on the vehicle or the equipment through the PFN.

108. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein the real-time vehicle or equipment management system further comprises a back-up power source that is stored in a location that is protected and secure.

109. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein the real-time vehicle or equipment management system further comprises an accountable management system that will not only perform security functions for a vehicle or equipment, but also, provide a protected, plug, play, program and memory preservation function, as a universal interface platform for any and all activity controls and accessories.

110. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein the real-time vehicle or equipment management system further comprises means responsive to at least one remote matrix of intranets communicating interactively with multiple levels government and mass data system processing including energy, environmental economic, financial, banking, investment market systems, commercial, chemical, manufacturing, natural resource management systems, agriculture, import, export, transportation highways, rail systems, water and sea management, ports, aviation air ports, commercial carriers, risk management insurance, customs health, education, welfare management systems, social security, immigration, military, justice, law enforcement, legislative and executive branches of government management. Intelligence, State Department and international affair management systems, and further interactively communicates with remote processing required for PFN/TRAC/FACT management system.

111. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein the real-time vehicle or equipment management system further comprises means to consolidate and integrate circuit design implementation to include; Systems On a Chip (SOC) technology as interfaces and modalities including a progressive modality and developmental architecture comprising Human Machine Interfacing (HMI) with Artificial Intelligence (AI).

112. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) vehicle or equipment management system according to claim 76, wherein the real-time vehicle or equipment management system further comprises means comprising TRAC/FACT registries that continuously transmit and update each FACT registry for a PFN asset; continuously communicates regarding authorized connection, and validating the system, and continuously transmitting secure data to said PFN.

113. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, wherein a Federal Access Control Technology FACT electronic serial number (ESN) and control circuit with integrated FACT program or firmware chip allows each element or component interface within the PFN/TRAC/FACT networking matrix to be securely and accurately, identified, tracked, inventoried and or controlled, either through a local PFN control loop or remotely, by an authorized network application or agency.

114. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, wherein a Primary Focal /Trusted Remote Activity Control/FACT PFN/TRAC FACT electronic serial number includes the basis for digital encryption of information passed between the PFN device and the controlling entity with local network processing nodes through public communications channels such as the phone lines or Internet initiated in many cases wirelessly from mobile PFNS and accompanied by their Mobile Identification Number, vehicle number or machine serial number as part of PFN/TRAC FACT Inventory Registry Program.

115. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, wherein at least one of modular and programmable routines are determined by the existing hardware and operating system firmware or software for any application responsively connectable through any communication medium by querying each component device attached through a Primary Focal Node / Trusted Remote Activity Control / Federal Access Control Technology PFN/TRAC/FACT system firmware chip or embedded software and/or responsive piece of equipment to determine if said connectable component is legitimate and cleared for safe public use.

116. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76 wherein the PFN includes a multiple of optional services; billing for commercial and governmental services, real-time payment, simultaneously gathering and locally processing data on interfaced, machines, vehicles, equipment, people, the environment and incident or accident events; and or provide remote and automated control through off board control and/or management systems in an emergency or in the case of a compromised operator in real-time.

117. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76 wherein storage of the information includes storage with two onboard and at least one TRAC/FACT offboard storage of the host piece of equipment and data, and an additional offboard storage optionally including an application specific Email for warning flags or alerts detailing an fact electronic component serial number vehicle vin and data associated with a privately owned or personal vehicle and contact E-mail address.

118. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, further comprising a cardswipe payment mechanism in or on the vehicle, responsively connectable to said at least one processor, GPS, Human Machine Interface HMI , and said payment mechanism collecting vehicle information and providing real-time billing, debiting or crediting from the vehicle, and retrieving at least one of a script or electronic signature from a

card carrier, and or verifying the identity of the card carrier via at least one of photograph, fingerprints, and or personal identification.

119. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76 wherein the PFN/TRAC/FACT inventory registry servers or financial internet services will support and be responsive with the Primary Focal Node /Trusted Remote Activity Control Federal Access Control Technology local unit to include any and all payment industry software applications and devices.

120. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76 wherein record keeping requires both access terminal and device electrical serial numbers and personal identification data as part of its authorization and authentication program with the time date and any geographic data, location, coordinates or address of all the equipment and systems participating or performing entries or accessing any PFN/TRAC FACT application folder or event file in storage at any location or part of the PFN/TRAC/FACT registry matrix of networks.

121. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76, wherein a Primary Focal Node /Trusted Remote Activity Control /Federal Access Control Technology PFN/TRAC/FACT inventory registry is accessible by a plurality of manufacturers on a worldwide scale with a plurality of security protocols in the marketing of component, devices and equipment and manufacture must provide a program to be given national authorization for sale, and wherein the registry will not activate either the component device and/or piece of equipment without authorization, and to include the authorization for resale of the component device or piece of equipment PFN requested and necessary upon each connection and queried to respond to the nature of the new install as the registry is contacted and requested to activate the new interfaced component.

122. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76,

wherein a host piece of equipment will not operate any of its accessories unless it is provided the correct signal from the PFN/TRAC/FACT registry or responsive Commercial Off The Shelf COTS security network, and wherein COTS products include RFID technology integrated to complete security tracking functions, for more immediate and cost effective data handling conversion.

123. (New) A real-time Trusted Remote Activity Control Federal Access Control Technology (TRAC/FACT) real-time vehicle or equipment management system according to claim 76 in a portable primary focal node personal PFN/TRAC/FACT tracking device and Human Machine Interface HMI that is worn by an individual and reports a location to at least one web address through communication with other PFN/TRAC/FACT components or via direct connectability to a public server gateway node, or publicly owned provider node using at least one wireless communication; and further functions to query other PFN/TRAC/FACT computers and responsive technology and retrieve and deliver data for any desired application to include environmental and or arbitrary stand alone sensing applications.